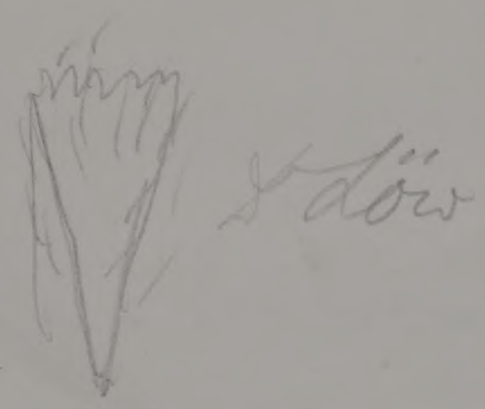

Rec^d Jan 29.

Wilkes-Barre Jan. 24 1877

Dear Doctor

Yours of Jan 17. was only received to day I reply at once. It is as you say. The Primus on the mountain top becomes rough when smaller than that below, – and I should say the magnification wt. – and I should say so stands, instead of merely assuming the change to age. My head has not been troubling me so much of late. I dont know what the cause is – but have had it since I was a boy. & it has been the cause of my leaving civilization & going west so much. In the Manuscript In Spec Whitlers Book, let Watsons Vol V Kings Report be the guide. Only dont describe anything he has described or that is in Gray Manual. I describe everything else briefly. Except the California things which I simply keep apart for an appendix at the end of the other part of the work. And will only Catalogue them. Please put the collection ~~total~~ number in parenthesis at end of description

in all the plants whether from Colorado - Arizona New Mexico or wherever they come from. Next summer I mean you shall have full collections of what oaks I come across - about here - And if I can do anything before, please let me know

Yours Over
J. E. Rattmock

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Rec Ap 7 7

Philadelphia Pa. 2838
April 4th 1877

Dear Doctor

I am now fairly in the Professional harness and thus far am getting on well. My pupils are apparently satisfied with what fabulum I offer.

Ululu is after the hot and hard it get that report through. Please let me have Gray as early as possible: not later than September under any circumstances — for I must get it through and become with it. And much outside work I can do this year in Botany I dare say. I shall have a few weeks off at any rate I hope. for I need it badly

Yours truly
J. T. Rothrock

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Rec April 28
Ans Saturday

Philadelphia Apr 26 77 2838

Dear Doctor

Some time ago I wrote you asking that you let me have the MS for the botanical volume at an early date since which time I have heard nothing. Pardon my writing again on the same subject — as I think you will when I tell you it is a matter of the utmost personal importance to me. Whelen has promised to pay me a small sum if I have all my MS in his hand by Sept. but owing to railroad stocks etc my income for the year only I get something from Whelen will be only $700. You see how I am fixed.

Yours Truly
J. T. Rothrock
Medical Department University of Pa
Philadelphia

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Ans Aug 8
Ans Aug 9

Dasylirion graminifolium Jacob

Phila. Box 2838 Aug. 4th 1877

Dear Doctor

I send you herein two Dasylirion No 329. is 14 ft. high. Stem 2 inches in diameter. leaves 2 ft long. from Ash Creek Arizona

---

No 655 is from Sonoita Valley Arizona and is 12 feet high. leaves also 2 ft long

Would you be kind enough to give me the names. or if the price description to furnish me with them. My portion of the Wheeler Work approaches completion. I have about 40 plants figured mostly by Sprague and Eaton ha just finished 108 pages of Manuscript on the Flora of the South West. We hope to get the whole thing in the printers hands before long - Bebb has done the Willows - And Watson the Leguminosae. James the Mosses etc

Yours truly

J. T. Rothrock

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Rec Oct 8
Ans 9

Dear Doctor

The Way is this, I recognize the ~~Colorado~~ collections all except those from California as representing a continuous area, and hence describe everything except such as Watson in Bot. Cal. and Kings Survey and Gray in manual describe. This makes the bulk of the volume. I describe it even if it is described in Botany of California, for many Army surgeons in Arizona, etc will use it who have no access to Fl. Cal.

2nd I describe nothing in my 1878 California Coll. for this the Fl. Cal. does. I make a separate list (simply a list) giving place of collection altitude and page in Fl. Cal. if it be in the volume mis out. This is to be an appendix to main report, merely a list of what I obtained in California

I cant say how about C. viridiflorus from Nevada as I saw nothing of that coll. but have had to describe in faith, and from material in my own herbarium from other sources. Enclosed I send five specimens of 933. Mosquito pass. It appears to compare well with 560 Hall & Harbour from same region. Verify the specimens. I have another. I will try & get ripe fruit of

2. Intermediate but are not sanguine. Brother a week so and found the acorn falling before full development.

Yours, Ever

J. T. Rothrock

Oct 4 77.

Our new Medical Class on the 3 years graded course is a good one. So that we consider the Experiment a success.

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Rec Nov 1st

Philad. Box 2838. Oct. 30th 1877

My Dear Doctor,

So after all here I am yet in the same old room. and poking away in my usual style. at my plants. The Woodruff expedition did not get off on time. and now for good reasons dont start until May. Hence I shall be able to see the Volume through. or nearly through the press. And please then send the MSS, as before to the care of Addison May Esq. West Chester Chester Co Penna. This winter I will spend largely in getting my herbarium in better shape. The fact of the matter is. I had rather not go with the expedition. but. they pay me a good salary. and the University here gives me leave of absence and encourages my giving to Collect for them: and it appears the only available way of making a living for the next two years. So that I accepted the place somewhat against my own desire.

Can I do anything for you. Yours Truly J. T. Rothrock

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Nov Jan 3?

Philad Dep 2838

Dec. 31st 1877

My Dear Doctor

A happy new year to you and many returns of the same. Thanks for the promise to let me have the manuscript soon. I need it — the most kind of way. for I fear that the delay will completely upset me next summer. as when I shall be put right down to my utmost working capacity I shall have to make indexes and proof etc. I have no need of reading Darwin to understand what is meant by the struggle for existence

The papers have not yet come

Ever Yours.

J. T. Rothrock

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Missouri Botanical Garden
George Engelmann Papers

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Rec Jan 6

West Chester Chester Co Penna
Jan. 2nd 1878

My Dear Dr. Engelmann

Happy New Year to you and many more of them with comfort in all.

I forward you to day the remaining proof. Please give it your earliest attention and return as usual to Lt. G. M. Wheeler U.S. Engs. Lock Box 93 Washington. D.C. I have the rest of your minor contributions in 2nd revise but as the alterations you indicate are all attended to it is hardly worth while to bother you with them. My reason for keeping Enteracan after Conifeae is I find it so in Hooker's Synopsis of orders at end of the English edition of Le Maout & Decaisne, which is understood to predominate the order in the remainder of Genera Plantarum. And I have endeavored to conform to it throughout so far as I could. Fearing that they have not done as I requested about sending you the paper on the Conifeae from Washington I take the liberty of sending you

along with this your MS. I long ago asked urgently of Dr Wheeler to send you copies of all our contributions to Wittrock for your own use. If he has not done so I will shoulder the responsibility of letting this MS go. But if he has, please return it to me. As Dr Wheeler with an abundant of red tape insist on holding me responsible for return to him of all the original MSS, even though I had taken the trouble to copy all to guard against accident.

With a renewed expression of profound obligation to you My dear Dr. I am as ever

Yours truly

J. C. Rothrock

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Rec Jan 17th

Philad. Pa. 2838
Jan. 15, 1878

My Dear Doctor

I fear you will be for sending a policeman on to "buck and gag" me for my importunities. but I am getting it from all along the line. Uhler has been at me weekly for rest of the MSS and this morning my good friend Prof Eaton's letter is forwarded me from Washington in which he states he too is at a dead lock because his fern paper is not out. And Uhler cant begin on it until all the Manuscript is in. Besides Reading the proof and making the index will now almost inevitably come on me at a time when I shall be lecturing six times a week. and having beside two classes in Analytical botany. Then if in my

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overwork and want of time I am unable to do this as it should be. My botanical friends in tender mercy to me will at once say - More slipshod work. and the rest of it. If I delegate the work to another I must then give up $2 00. and be content to support my family and myself on $1200 a year instead of $1400. Please forgive my importunity. of which I would not be guilty if absolutely bread & butter did not drive me to it.

Sincerely Yours

B. T. Rattbach

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Rec'd Jan 24th
Ans — Saturday

Phila. Box 2038, Jan. 21, 1878.

My dear Doctor,

By the way, before I forget I want to say that if you place any dependence on double stained cross sections of pine leaves for the compound microscope and are not in the way of making them yourself, I will after awhile be glad to do so for you. I am devoting all the very little spare time I have now to that line of work for class room lectures. I have not yet laid my hand on the Coniferae but know perfectly well that I can succeed with it. Now to go back. You say in yours received this morning. "I adhere to your last order to describe all that are not in Gray's Manual — is it so?" Now in yours of Oct 9, the last in which we had any discussion as to plan; You say: "Here come more orders again. Heretofore you have said Gray's Manual, Watson's Botany, Fl. Cal., everything else to be described. Now you exclude Fl. Cal." Well I should not my dear Doctor have alluded to this except to give you a better idea of my consistency. The plan is this — The plants of

1871 & '72, ~~described~~ enumerated by Mr. Watson in Wheeler's pamphlet of 1874, from page 5 to page 19, inclusive and the plants of 1873, enumerated by me in the same paper, page 31 to 57 inclusive and the collection of 1874, as yet mostly unpublished, are to be arranged according to their orders in one report and all of them described except such as are described in Watson's Botany of the 40th parallel and in Gray's Manual. The plants of 1875 collected by me in California are not to be described as this will be done in Gray and Watson's Flora of Cal. I keep them separate and simply enumerate them and will make an appendix of them for the back part of the volume. The plants of 1871 & 2, I have never seen; they are in Cambridge. Trusting to the accuracy of Mr. Watson's determination I have described the species from other specimens. Erythraea triacantha is evidently a misprint. The other two are of course good species. When known always give the number and place of collection and usually name the collector.

Yours ever,

J. T. Rothrock

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830 + 177 160 160
+30 007
28 019 + 013 − 85 + 25
054 + 035 + 25 25
078 + 024 + 15 15
400 3.85

9 026 50
181 25
2 60
183 85

2940 95
2444 30
496 15
183 85
312 30
2940 45
2744 30
196 15
183 85
12 30

Philad. Box 2838. Jan 29th 1898

Dear Dr. Engelman

Mss. received and I like it much. Many thanks. You are right. All the plants of 1897 S. are from California and are to be simply enumerated, not described and are to be bound as a separate paper as an appendix in the back of the volume. (in the collection) Of course when I have the same species coming from some other place as well as from California, it is to be described in the body of the book (in which case it is simply named) described in Gray's manual or Watsons Bot. W. U. S. and is also to be enumerated in the Cal. list. I have not now on hand any pine bog sections, but will make some as early as possible, i.e. when the prep. of mss. allows me.

Yours truly

J. T. Rothrock

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Ans 5 Febr 22

Philad. Bup 2838.

Feby 19. 1878

Dear Doctor

Please let me have the rest soon as possible. Wheeler & Eaton are both after me. As Eaton is anxious to have his ferns in prep. The fact is I am in a pretty kettle of fish all around.

Well. Thanks for Euphorbiaceae — will send it as per request to Watson — asking him to return it as early as possible.

I don't indulge much in synonymy in my part, but when I do, I put them immediately after the name.

Many thanks for the Euphorbiaceae

Ever Yours

J. T. Rothrock

Missouri Botanical Garden
George Engelmann Papers

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Ans June 1st

West Chester Pa
May 29th 1898

My Dear Dr -
Yours Received -
Many thanks for the promise about the Mss. Last night came another letter from Whitlock. So please do let me have the Copies & Juncus at earliest possible moment. I want to get this nightmare off my hands.
You have no idea how much annoyance, time and money it has cost me. My failure to have it in last October cost me at one blow #200. And I really must close it up before the middle of June -
Please my dear doctor - write to my

Yosemite with the last - Wilcox,
Cuscuta & Juncus -
I am glad you have
settled those doubtful species
of Pinus.

Yours Truly
J. T. Rothrock

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Rec June 15

West Chester Chester Co Penna
June 14th 1898

Dear Dr.
The Coniferae MSS.
Came on yesterday I cant tell
you how much I am pleased
with it;
I will tell Mr W. to go on
with his printing, meanwhile I
will hope to get some you repre on
Come to the parts. the Agaves, Aloes
Yuccas + Juncei. It will not
take a great deal of work to
finish them up and no one can
do it so well as yourself. Let
the description & notes be never so
short. Still I would like them, as
bearing your stamp.
Sincerely Yours,
J. T. Rothrock

After this My Postoffice for every thing will
be West-Chester, Chester Co Penna

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Ans Nov 1st
Ans 7th

West Chester Chester Co Penna
Oct. 29 1878

Dear Dr Engelman

Yally-mon of Cuscutear - Gutiana
ean. & Asclepiadeae? I am just from an
to get it in accord with your MS. & to
give you that mite. The final voice I have
directed to be sent to you. The California
plants. of these I was obliged to transfer to Cali-
fornia supplements, where they will come in
as you have written them. The synonyms
I have put after name as I had done so in
all the rest of the report. The note you placed
under Gutianaceae to the effect that it was
taken in advance from Gray's Syn Fl I have
left out. as it is not published.

Now comes a question. Your name after
the orders etc I have spelled Engelman for
so I find it in your letters to me, though I
know it is usually given in print with nn
which is right? With many thanks to
you my dear doctor I am yours truly
A. J. Rothrock

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Rec Nov 9
Ans — 11

West Chester Chester Co Penna
Nov. 7. 1898

My Dear Dr Engelman
I send to day pages
187 – 197 inclusive — also
from Cresentia
Enclosed you will find War department
Stamps to return it. when done to

Lieut Geo. M. Wheeler U.S. Engs.
Lock Box 93
Washington D.C.

Those portions of my work of Portes which may happen to be on same sheets with yours I of course will look after.
Please let us have the proof at Washington soon as possible
Ever Yours
J. T. Rothrock.

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Ans Nov 16

West Chester Chester Co Penna.
Nov. 13th, 1878

My dear Dr. Engelmann

Your letter this morning is a pleasing assurance that you are out of bed and about again. I have requested that the Cactae be sent you.

As to want of uniformity. It is of course better that in essential details a work should be uniform, but I think we often go too far in details. In my introduction I state that the general model being given each author who will appear as nearly as may be in his own style. I knew that the editor is expected to put MSS. in shape, but I did not want it take any responsibility of the kind lest I should I, fail to give the exact idea and so lay myself open to a severe charge. In fact some of those who contribute would "go prime" if I did. The signs ' & " I know are objectionable but I was ordered to follow the model of WLV Kings Rep & hence had no choice.

As for locality I simply put a block

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Ustilago glacialis, Wull. — Utah.

Do you want a good, Stained cross section of Pinus edulis leaf, & one of cuticle — I have my first Japan Cal. Specimen?

Yours truly
J. B. Ellis

I will ask you not to publish about the Peck Stimata, as I am at work on a paper in that direction.

As a rule I quote authorities sparingly when there appears to be some object in doing it

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Rec Nov 27
Ans — 28/

West Chester Chester Co Penna
Nov. 23rd 1898

My Dear Dr.

I send you Falley proof and MSS. of Euphorbiaceae, Stipuliferae, Loranthaceae & Coniferae. I have not gone over any of it as I knew you wanted it, and by thus sending it so much time is saved. Please return both proof & MSS as early as possible, (they are hurrying me both & Clam) to

Lieut Geo. M. Wheeler U.S.Engs.
Lock Box 93
Washington D.C.

Did I tell you that the Authorities in Washington decide the Valley in Southern Arizona is to be Spelled Sanoita?

Enclosed please find Stamps to return to Washington — the proof & MSS.

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Dear Dr. Ave Nov 27

Please on all occasions return to the office all you receive from it. MSS. & all the proof. They are going from me to the seat of some proof missing. I don't know when it is. I have not got it.

Please let me know by return mail whether you can trust me to read the revise proof. (Galley I'll send you) I will expedite things & I am looking like a beaver to get it through at once

Yrs Ever J. V. Kittoch

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POSTAL CARD

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

Dr. George Engelmann
3003 Locust St.,
Saint Louis
Missouri

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Dear Dr. Mere proof by
this mail. The Cuscuta
I did not send as it apparently
was all straight - and I
intended to confine
simply cutting a shut.

The name problem
I will answer &
straighten up - i.e.
whether you claim
me or two rs to wind
up your name with.

From the way things are being
pushed we shall be done with
the whole thing in a couple
of weeks I hope.
Please return your proof at
earliest possible hour to
Mr. Wheeler, Lock Box 93 Washington
Yours J. T. Rothrock

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ROCHESTER NOV 26 P.M.

U.S. POSTAGE ONE CENT

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Geo Engelmann
3003 Locust St.
Saint Louis
Missouri

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Enclosed please find War Department stamps to return your 67.

West Chester Chester Co. Penna
Dec. 8th 1878

Dear Dr Engelman

Thanks for yesterday the revise of your articles in ~~Penna~~ Dominion and in Quebec. Please correct and return the whole thing to the Office of Gen. M. Wheeler Lock Box 93 Washington D.C. Whatever of mine there may have been in it. Of course it is not requisite for you to bother me. That I have done. But let me ask that you return the whole thing and as speedily as you can. Of course understand that you are a much overworked and overbothered man by my importunities. but if you knew how they go for me from Washington ~~on~~ for any delay. You would not wonder at my urgent requests. I have put in requisition for copies of all your papers for you.

Sincerely Yours
P. S. Rothrock

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Rec Dec 14

West-Chester Chester Co Penna Dec. 10th 1878

My Dear Dr. Engelmann

You can trust my copy of your mss for figures, I am sure. Don't you remember that the first-proof sent you from here you complained that nothing was sent you save that in which the printer's corrections were to be found? Well, now that red-tape copy that you returned was the clean copy sent at my request in order that you might have the whole margin to make notes in. If you did not use it of course I don't know why the printer wanted it back but so he did. I will hurry along that extra copy of the engraver for you. For of course I can understand that you would want to compare it with your present work.

Now let me rise to a point of order — I did not do justice to the Epacridaceae. You say, Well, Well, no man knows that better than I do; but then my dear doctor, has it not been the burden of my song for three years that I had <u>positive orders</u> not to describe anything described in Vol. V Kings Survey or in Gray's Manual? Now I utter my protest against being in anyway held responsible for such kind of omission. I know there are many cases in which I should have said more, but I was positively bound not to.

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Now all I ask is fairness and that the without any mental reservation exonerated from blame in this matter. Am I not right? I have in no case insisted on others following me in the matter for I wanted them to have the best show possible, but I was under orders. I have you see so many sins of my own to answer for that I cant possibly carry those which dont belong to me.— Still we are nearing the end and I am glad of it. for the work has been done by me when I was sick. And under a load of care and anxiety that ground all the life out of me. Once I get to Z in the index I shall break out into Luthers long meter doxology. and then think about some botanical work I can take up and do in a more thorough manner as I want to do it. I will send you the revise soon as it comes.

Yours

J. T. Rothrock

Missouri Botanical Garden
George Engelmann Papers

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Rec Jan 8th

West Chester Chester Co Penna
Jan. 6. 1879

Dear Dr Engelmann

I had thought I was done bothering you - but find in looking over the California list that you have contributed so much to it that I dont like to assume the responsibility of correcting it. Will you please attend to it. And then forward the whole thing to Washington (Cf. Wheeler Lock Box 93 Washington D.C.) I have sent a lot besides yours, simply to keep it all together and prevent confusion in the Washington office. I will not trouble you again to correct your own. Now the whole thing is in type and the greatest work remaining is to make the indep. If you do it you will happen that by bothering me lots so much you can make me share your interest I beg that you will do it.

Ever yours.

D. T. Rothrock

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Rec Jan 15

West Chester Chester Co Penna
Jan 11. 1879

Dear Dr. Engelmann

Your letter just received. I am very sorry to hear of the illness of your son. Such accidents are always of serious character. I do hope for his speedy recovery, or at least for a prompt amelioration of the symptoms. Now you do all you do I cant make out. Medical duties alone are onerous. I can understand your disgust with the government bothers. and their failure to meet my demands for your proof for your own use. & which I have asked for urgently 3 or 4 times annoys me because it is the least possible recognition of the pains you have been at for them. I have no doubt you will receive the 25 copies of all you wish. and I think I can beside promise that you shall get 10 <u>complete</u> copies of the Report. I am after Wheeler hard now for this, for everyone who has contributed to the volume. and the signs of the times are very favorable. My reason My dear Dr. for writing Lock Box 93 in every letter was not intended to suggest a doubt, that you had forgotten it: but because

I do it in very similar letter I write to any of my associates in labor. to guard against all possible contingencies.

Ever yours

J. T. Rothrock

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Mr. Pierson

West Chester Penna
Feby 6. 1879

Dear Dr. Engelmann.

The blunder is all straighter 25 years as I can see. With me the long suspense is over. and I have indexed Rhysophyllaceae In two days more I shall mail the index to Mr Underwood. There nothing remains but to correct the proof of it & send it to the binder. Beside your special contributions I believe you are to get 10 full copies —

Yours
T. Meehan

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Rec'd Oct 20

West Chester Chester Co Pa.
Oct. 17. 1879

My Dear Dr. Engelmann

So does your advance sheets from Fl. Cal. & Vol II reached me. Many thanks for them. You will see I make through work of them there. I am glad to see Dr. Gray's gives place to Dr. Kellogg.

I have a special favor to ask of you. It is this. Can you spare me another copy of your "Synopsis of the Cactaceae of the United States & adjacent regions". The friends gave me one copy which was my companion in 1874 through Arizona but one unfortunate day a pack mule ate it in mash near Indian where it was supposed safe. I could ill spare my books. I have almost all else of yours due the paper on Mississippi Pl. & I want to have a lot of binding done

One of these days.

I'll ask what the outlook is. Still if you mean my prospects I can only guess what is best as they come. The University promises actually nothing so far as I can see now or in the future. I have to take all my time in half-pay small jobs that leave me no full Botanical Study, hence I am doing no scientific work that is of any value.

I do not want my dear Dr. to be anxious about such a poor one. Let I have always felt myself. I will send you in a few days half a dozen microscopic slides I have finished. It is not they have any value but simply to remind you that I am still alive, & I regret exceedingly that I missed you when in Phila.

Yours truly

J. T. Rothrock

Missouri Botanical Garden
George Engelmann Papers

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Ans Nov 1st
Ans Nov 15th

West Chester Oct. 30th 1879

My Dear Dr Engelmann

I send you by to day's mail 6. of my double stained vegetable preparations. I find the staining process of great use especially in teaching. I don't suppose you will see much in them you have not seen in the unstained. Some possibly that the Ostmata in the Primo Monophyllus are more clear. Please look at them with a power of say 100 diameters.

Yours Very
C. S. Rothrock

I am looking after Johns Hopkins University. Can you give me a lift in any way there?

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Rec Nov 28
Ans same day

MISSOURI BOTANICAL GARDEN
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West Chester Penna. Nov. 19th 1894

My Dear Dr.

Your letter was received yesterday & I am glad you find these slides of interest. Thinking you might like a sciadopitys stained and mounted I have prepared for me for permanent specimen. There are 4 sections on it. The two in the middle have been bleached in Labarraques solution, since the starch & chlorophyll parts seem to be all gone. They are stained in Logwood. & as you will observe the central bundles are as plainly differentiated as in the Pinus* I sent you. The two sections at the end of the row are not bleached, except by soaking in alcohol, & would not under if you found some starch grains from the potato in which I held the leaf to section it, still adhering. In them there is the same differentiation only the colors are two, Carmine and Iodine green. For a detailed account of my method of doing this see Botanical Gazette for September. I will say here lest I forget it that I am to have the great luck of 6 or 8 months in a German laboratory next year. I had just a little prospect from Johns Hopkins, but sent

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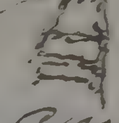
Say what will come of it? Thanks my dear Dr. for the use of your patent name & will use it if called upon.

What surprises me about the Sciadopitys is the entire absence of stomata save in the yellow sulcus on the lower side of the leaf. Here too it requires a fair power and good manipulation to show them. In P monophyllus, they & remember correctly they are in lines all around the leaf. Sciad. is very instructive. I have now got a bright pupil making cross sections & training them of all the authentically determined pines my herbarium affords. Also preparing cuticle in same way: to make a thesis of it for coming examination. He is much pressed for time however. I have no doubt you can after spring get the use of his slides if you desire, or may be get a duplicate set of them.

Later. Nov. 23rd concerning bitis The specimen named vulpina was from Florida. Hence the vulpina of Linnaeus. Now in it the bark does not shell off and the small fiber bundles first-developed remain at the tip of the cone  then come the later ones in plates. The thickened sides of the cone ~~[illegible]~~ made up of either wood or fiber (I don't think they can always be distinguished) bind the plates together. Hence the bark holds on and gives always the small apex of the cone. Now in the other specimens the truncated plates are due to the removal of the outer bark having carried away the small apex. I think on that same specimen you will find some of the bark either removed entirely or partly but in either case showing the enclosed plates.

Yours Truly
J. T. Rothrock

I have succeeded in putting 3 colors in what I take to be a section of bitis lanceolata. I send also a single stained specimen of Cunninghamia, prepared by another process, it is of no great value save as a curiosity.

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Ans Ap 1 22

Letter on Griffith's behalf,

East Chester Chester Co Penna.
Apr. 19. 1880

My dear Dr. Engelmann

I have to ask as a very special favor that if you can spare me, you will send a copy of your paper on Pines to Mr. Crozer Griffith. 2038 Chesnut St. Philadelphia Penna. He is a bright young student of mine who for some months has been studying the pine leaves microscopically with great care: making stained sections of them. If there be any cost let me know & I'll remit. but I am very anxious that he should have a copy.

Yours Ever J. T. Rothrock

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Rec May 12

West Chester Chester Co Pa,
May 8. 1882

Dear Dr Engelmann,

The paper on Yucca which you were kind enough to send me I received yesterday. I had just been thinking of writing to ask you for it.

I suppose I am modified in the University of Penna. permanently, but my time and ways of necessity to Medical Botany. In fact I have been driven to begin preparation of a book of the sort for my students in the Course preparatory to Medicine. I suppose all these changes which have come in my field of work mean that I am to do no original work but simply be a teacher. I have come to accept the situation with a sort of enforced complacency.

With many thanks for your very important paper I am sincerely Yours

J. T. Rothrock

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Rec Apr 3
Ans May 6

West Chester Chester Co Pa. Apr. 28, 1883.

Dear Dr Engelmann

I received your kind note a few days ago. Touching the matter of Second growth Oak being stronger: the fact is now so generally allowed that Wheels made of it command higher prices than those made of first. I have verified my conjecture published in that paper relative to the strength of the medullary rays. Thus live Oak pulls a-part in the direction of the ray at about 1100 lbs to the square inch, but is tougher at right angles to it, at about half that weight. These facts will soon be more fully brought out by a pupil of mine. & as he has not yet published I had rather nothing was said about it yet. Touching the Vitis, I will be very glad to prepare specimens for you if you name and send me the material. The dry sticks do not stain so well as the green but I think

I can bring them out ~~I think~~. Please send them very soon as in a little while I shall be away for several months. If you prefer I will give the sections a study and report results to you, though your judgment on them I think is worth more than mine.

Concerning length of fibre. I have not been able to make clearly out yet that it has any certain relation to strength, except in such extreme cases as Phoradendron where owing to the very short fibre the twig snaps almost like glass. I am now sure that we must admit differences in the quality of the cellulose per se, as affecting strength of timber. Hoppes is busy with a big contract of Landscape Gardening. I want to study the microscopic character of wood very much more and will do so; but when? I am so overworked by my University duties. Teaching 30 hours a week, & riding sixty miles a day (to & from my home) does not encourage original investigation.

Yours faithfully
J. T. Rothrock

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Ans Nov 7
Ans —

West Chester Chester Co Penna,
Nov. 4. 1883.

My Dear Dr Engelmann,

I am much pratified to hear of your safe return to this Country. I have been unable to use my eyes until very recently & hence have been unable to prepare your specimens. I shall finish the lot in a few days. Hearing of you at Boston I did not know where to send them — pray let me know — My eyes are I fear about used up.

Yrs Truly

J. T. Rothrock

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